

## Success Story

**Name of Project** : **Participatory quality vegetable seed production to enhance vegetable production in UP**

**Implementing Agency** : **C.S.Azad University of Ag. & Tech. Kanpur**

**Funding Agency** : **RKVY, Dept. of Agriculture, Govt. of U.P.**

<b>1.</b>	<b>Title</b>	<b>Vegetable pea seed production through participatory approaches</b>
<b>2.</b>	<b>Category</b>	Horticulture (Vegetable Quality Seed Production)
<b>3.</b>	<b>Challenge</b>	Uttar Pradesh is emerging a major vegetable pea growing state in India but availability of quality seed of vegetable pea is very discouraging. To enhance area, production and productivity of vegetable pea, seed replacement rate is a prime factor which is influencing the production of vegetable pea. Agriculture Universities and other seed supplier agencies are not capable to supply the required amount of seed because of their limited resources. Participatory Seed Production through FIGs in Vegetables, concept was developed by Chandra Shekhar Azad University of Agriculture and Technology Kanpur. Under this concept, the major activities were selection of interested seed growers, capacity building through training and technical education for quality foundation seed production on the fields of selected farmers under the Rashtriya Krishi Vikas Yojna, Department of Agriculture U.P. funded a scheme which was launched by Vegetable Section of Chandra Shekhar Azad University of Agriculture and Technology Kanpur. i.e. "Participatory vegetable quality seed production to enhance vegetable production in U.P."
<b>4.</b>	<b>Initiative</b>	<p>Edaphic condition of Bundelkhand, Madori village of Madhogarh Block in district Jalaun (Bundelkhand) was selected for the purpose. After the selection of village an open meeting for all was organized in village Madori. In this program more than 250 vegetables growers/farmers were participated and One Farmers Interest Group (FIG) named Jai Gurudev Swayam Sahayata Samooh of 10 farmers with similar thoughts, available resources etc. was formed. After through discussion it was decided to grow foundation vegetable seeds in the meeting. Thereafter, to trained and educate the farmer of FIG the skill training programmes on quality seed production, seed processing and storage, seed certification protocol and market linkage were organized. For the purpose of to change in attitude and development of the skill of the farmers, the exposure visit/sight seen at University research station and other institutions were also organized.</p> <p>The 50 Kg breeder seed of vegetable pea cv. Azad P-3 were given to every member of FIG by Chandra Shekhar Azad University of Agriculture and Technology Kanpur for the production of foundation seed on one acre land. All agricultural inputs viz. fertilizer (FYM 250 qt/ha, NPK 40:60:60 kg/ha, weedicide, micro nutrients etc.) were managed by the seed growers and irrigation was applied through sprinkler system. All the recommended agro-techniques were followed by the seed growers under close supervision of the scientists. As per protocol of the seed production, the field was regular monitored by the scientist as well as seed certification officers, Govt of U.P.</p> <p>For processing of the produce at farmers door, a mobile seed processing plant was provided to the FIG under their own management by the University provisioned in the project. Processing of the seed was done under the presence of University scientists and Seed Certification agency, Jalaun Govt. of UP.</p>

5.	<b>Key result/ insight/ interesting fact</b>	In the beginning, the FIG i.e. <b>Jai Gurudev Swayam Sahayata Samooh</b> has produced 115 quintal foundation seed of vegetable pea, which was sold as a seed to the 205 farmers/ seed growers (40 farmers of same village and rest 165 of other villages/district). Thereafter, the FIG is being produced foundation seed continuously and distributing as a seed to other farmers as per MOU between FIG and University. Under this system one farmer member is bound to give their seed produce to atleast 04 or more farmers as a seed. Under this chain a large number of the farmers are benefited.
6.	<b>Impact</b>	The group members are very happy with seed production programme of vegetable pea. In beginning of the scheme, there was only single farmers interest group in Madori village of district Jalaun and seed replacement of the village was about 6.5%, but now a days after seeing the success of the <b>Jai Gurudev Swayam Sahayata Samooh</b> 10 more FIGs/ SHGs were started the vegetable seed production in district Jalaun. The seed production programme achieved bigger height from nil to 115 quintal of foundation seed in beginning, which has costing of net profit by Rs. 6.95 lakh with CB ratio of 4.08. Presently, whole Madori village is started seed production of vegetable pea for their own requirement as well as for other farmers of vegetable pea and stands at first position in the district in terms of foundation and quality vegetable seed production. The current seed replacement of vegetable pea of the village is 17.2%, which is 164.6% higher comparison to the beginning. On the other hand, the farmers of the village are being selling of quality seed to the farmers of the other districts viz. Budaun, Gazipur, Jaunpur, Balia, Kannauj etc. and during the last three years more than 300 quintal of foundation seed has sold out.
7.	<b>Lesson Learned</b>	<p><b>Difficulties/Challenges</b></p> <ul style="list-style-type: none"> <li>• Lack of awareness about quality seed production techniques.</li> <li>• Non availability/Shortage of breeder seed for further multiplication.</li> <li>• Lack of available resources i.e. irrigation, transportation, farm advisory services etc.</li> </ul> <p><b>Lessons</b></p> <ul style="list-style-type: none"> <li>• Participatory approaches of seed production may be an effective tool to increase the quality seed production as well as seed replacement rate.</li> <li>• The adoption of improved technology of seed production has greater impact. Therefore, the focus should be given on transfer of improved technologies.</li> </ul> <p>➤ If we do it all over again, the build up of farmers led extension mechanism will be established.</p>
8.	<b>Supporting Quotes and Images</b>	Shri Ashok Kumar Singh s/o Shri Awadesh Kumar Singh is a group leader of FIG named Jai Gurudev Swayam Sahayata Samooh of village Madori district Jalaun. He is graduate in agriculture and doing traditional farming. Under the scheme he is trained as a farmer master trainer by the University about improved techniques of seed production. Thereafter, he is actively engaged in to increase the vegetable seed production in village as well as in the district under the technical guidance of University scientists, department of Agriculture, Seed certification agency and playing an important role in linkage between buyers and sellers of vegetable seeds. Presently, he is fame farmer personality in the district and awarded best and progressive farmer award by the different agencies i.e. Dept. of Agriculture, Agriculture University etc. in the field of vegetable seed production and organic farming. After the adoption of vegetable pea seed production programme, the status of livelihood of group leader Shri Ashok Kumar Singh as well as their group members Ashok Kumar Singh, Virendra Singh, Raju Singh, Bhawani Singh, Krishna Swaroop Singh, Sanjay Singh,

Chandrabhan Singh, Dinesh Singh, Shyamala and Manphoole has been remarkable increasing and serve as a source of information and seed in village as well as in district.



**Seed Production of Vegetable Pea (Azad P-3)**



**Dr. D.P. Singh Sr. Scientist (Veg. Seeds) & Dr. H.G. Prakash Director Research with Farmers**



**Dr. N.B. Singh, Coordinator Research Interaction with Farmers**



**Vice Chancellor shared his experiences in Farmers Trainers Training Program**



**Dr. D.P. Singh PI delivered technical knowledge to farmers**



**Dr. N.B. Singh Coordinator Research with farmers and Scientists on field visit**



**Mobile Seed Processing Plant**



**Packing of Seed Produced by FIGs**

**9. Additional Information**

**1. C.S.Azad University of Ag. & Tech. Kanpur is the implementing agency and funding agency is Rashtriya Krishi Vikas Yojana under Dept. of**

		<p>Agriculture, Govt. of U.P.</p> <p>2. Supporting materials (Published by the CSAUAT, Kanpur) i.e. Technical Literatures (Pumplet/Leaflet /Folders), news letter etc.</p> <p>3. <b>Contact person for this story</b></p> <ul style="list-style-type: none"> <li>• Name : Dr. D.P. Singh</li> <li>• Position : Principal Investigator /Sr. Scientist (Veg. Seeds), C.S.Azad Univeristy of Ag. &amp; Tech. Kanpur</li> <li>• Mob. No. : 9415070668</li> <li>• email : dpsinghjrdsa@gmail.com</li> </ul> <p>4. <b>Other information/Contact person for this story</b></p> <ul style="list-style-type: none"> <li>• Name : Shri Ashok Kumar Singh</li> <li>• Position : Group leader of Jai Gurudev Swayam, Sahayata Samooh, Village Madori, District Jalaun</li> <li>• Mob. No. : 9450288811</li> </ul>
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**10. Checklist**

S. No.	Question to consider	Yes	No
1	Is the story interesting to the target audience of the project/activity report?	Yes	-
2	Does the story explain what new insights the project brings? What is the main lesson learned from this story? Does the story describe a key insight on what works and what doesn't and something that future project could build on	Yes	-
3	Does the story describe the outcomes the project produced and the people who are benefiting? What change-in skills, knowledge, attitude, practice, or policy-has the project brought, and who is benefiting from these changes?	Yes	-
4	Does the story make a compelling point that people will remember? Does the story show how the project makes a difference to improving livelihood and lessening poverty?	Yes	-
5	Does the story provide an interesting fact that people will remember? For example, how much yields increased, how many hectares of land could become more productive from this innovation or technology?	Yes	-
6	Does the story explain what kind of impact this innovation or technology could have if scaled up?	Yes	-
7	Does the story show which partners contributed and how?	Yes	-
8	Does the story include quotes from stackholders or beneficiaries?	Yes	-
9	Have I provide links to other media (journal articles, website news, newsletter, blogs and annual reports of other programme/project) that also feature this story?	Yes	-
10	Have I provide the contact details of people who can provide more information?	Yes	-